



## PATENT ABSTRACTS OF JAPAN

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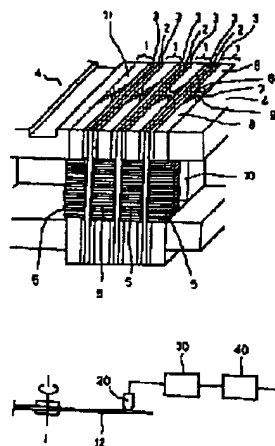
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**G11B 5/027**(21) Application number: **02066907**(22) Date of filing: **19.03.90**(71) Applicant: **HITACHI MAXELL LTD**(72) Inventor:  
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**YASUJIMA TAKAHIRO****(54) MAGNETIC RECORDING AND REPRODUCING  
DEVICE**canceling the cross talk between each channel after  
correcting the phase to carry out the signal processing.**(57) Abstract:**

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**PURPOSE:** To effectively suppress cross talk by interposing a magnetic shielding material between each head chip of a multitrack magnetic head and providing a correcting circuit for correcting a phase shift of a regenerative waveform due to cross talk to be generated between adjacent channels and a compensating circuit for canceling the cross talk after correcting the phase shift.

**CONSTITUTION:** One multitrack magnetic head is composed of an assemblage of four head chips. Each head chip 1 is made by layering a magnetic thin film 6 consisting of an amorphous alloy of, for instance, Co-Nb-Zr on a ferrite core 8, and the chips 1 are connected via magnetic gaps 7 with low fusion glass 9. After winding a coil 5 around the head chip 1, a magnetic shielding material 2 consisting of a copper foil, etc., is disposed via a coil protecting material 3 such as barium titanate, etc. A signal read out by the multitrack magnetic head 20 constituted in such a way is corrected in its phase shift in the regenerative waveform due to cross talk to be generated between the adjacent channels by the phase correcting circuit 30, and is inputted to the compensating circuit 40 for



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PRODUCTION OF THIN FILM MAGNETIC HEAD

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JAPIO KEYWORD: R002 (LASERS); R003 (ELECTRON BEAM); R044 (CHEMISTRY --  
                 Photosensitive Resins); R101 (APPLIED ELECTRONICS -- Video  
                 Tape Recorders, VTR)

#### ABSTRACT

PURPOSE: To provide a method for producing a thin film magnetic head by which the azimuth angle of the thin film magnetic head can be arbitrarily set with high precision and a smooth magnetic gap face can be obtained

CONSTITUTION: A magnetic layer 2 is etched by irradiation with a converged ion beam 5 inclined at a prescribed angle to form an inclined face 14 and then a magnetic gap layer 3 and a magnetic layer 4 are formed. The magnetic gap layer 3 can be formed as a layer having an arbitrary azimuth angle.

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